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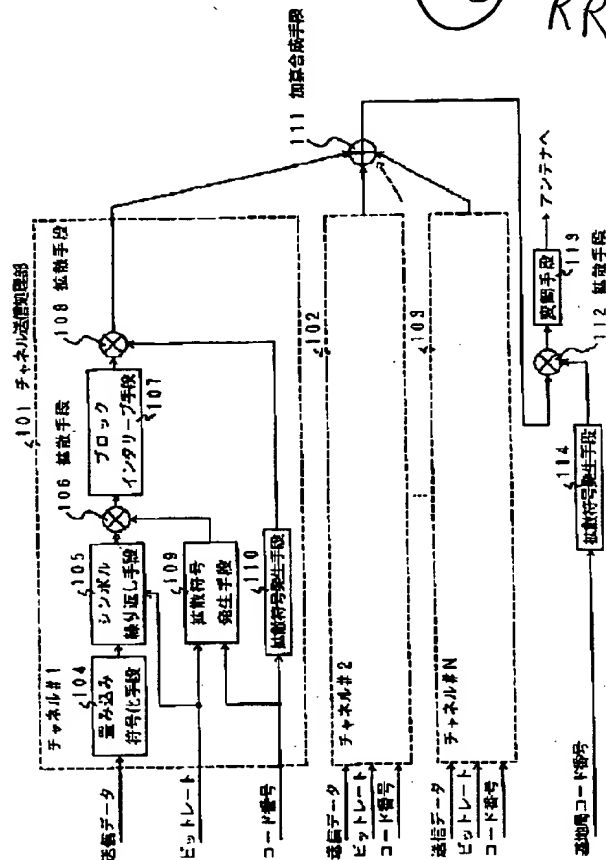PUBLICATION DATE : 19-06-98

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TITLE : VARIABLE RATE CDMA DIFFUSION CIRCUIT

ABSTRACT : PROBLEM TO BE SOLVED: To reduce mutual interference and to effectively use a frequency by selecting a sufficient number of diffusion codes which are mutually orthogonal when plural channels different in bit rates coexist in a moving communication system.

SOLUTION: A first diffusion code generation means 110 generates the diffusion code where a period corresponding to the code number of a basic rate is matched with symbol length. A second diffusion code generation means 109 generates second diffusion codes corresponding to sub-code numbers discriminating the plural channels whose maximum bit rates are always lower than the basic rate. The channel whose bit rate is lower than the basic rate is diffused by the sub-codes which have code length equal to the number of symbol repeating times and which are mutually orthogonal after the basic rate and the symbol rate are arranged by repeating the symbol. Thus, one basic rate diffusion code can be shared by plural low bit rate channels and mutual interference can be eliminated.

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